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JNANA BHARATHI
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BUB/CTE/2017-18/Steel

Date: 13-05-2017

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10, 12, 16mm.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 08-05-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

Technical Reference: IS 1786-2008

TABLE – 1

SL No	Details	For 10mm		For 12mm		For 16mm	
		Test Results	Min. Req as per IS 1786-2008	**Test Results**	Min. Req as per IS 1786-2008	**Test Results**	Min.Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm	**12.0mm**	12.0mm	**16.0mm**	16.0 mm
02	Observed Wt/m Length **Kg/m**	**0.623**	0.567	**0.893**	0.834	**1.582**	1.483
03	Proof stress/Yield stress, fy , **N/mm^2**	**558.0**	500.0	**560.0**	500.0	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.70**	12.00	**20.80**	12.00	**21.30**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**634.0**	545.0	**624.0**	545.0	**618.0**	545.0

*As Furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2017-18/CA

Date: 13-05-2017

1. TESTING OF COARSE AGGREGATES (40mm):

Sub: Testing of Aggregates 40mm.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 08-05-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	97.00	85-100	95 – 100
20mm	42.30	0 -20	30- 70
10mm	23.60	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	**Requirements** as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	**14.50 %**	Not to exceed 25 %
2.	Crushing value	----„----	**26.10%**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2017-18/MS

Date: 13-05-2017

I. TESTING OF FINE AGGREGATES (ROBO SAND):

Sub: Testing of Robo Sand/M.Sand.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 08-05-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2007) Percentage Passing				Remarks
		Zone-I	Zone-II	Zone -III	Zone -IV	
10.00	**100.00**	100	100	100	100	The Sample Conforms to Grading **Zone-II**
04.75	**94.80**	90-100	90-100	90-100	95-100	
02.36	**88.30**	60-95	75-100	85-100	95-100	
01.18	**75.00**	30-70	55-90	75-100	90-100	
600. mic	**44.30**	15-34	35-59	60-79	80-100	
300.mic	**22.50**	5-20	8-30	12-40	15-50	
150.mic	**8.10**	0-10	0-10	0-10	0-15	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2007)
1.	Specific Gravity	001	**2.61**	----------

*As Furnished by client.
The Results relate only to the items tested

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BUB/CTE/2017-18/Cement

Date: 17-05-2017

I. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
(Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**)

Ref.: Letter No. AEE/SWD/DD/PR/13/2017-18, dated 08-05-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

PHYSICAL TESTS ON CEMENT

Brand* : Birla Super
Grade * : 53
Type * : OPC
Date : 09-05-2017 to 16-05-2017

Sl. No	Name of Test	Results	Requirements as per
		Cement Sample	IS 12269-1987
1	Initial setting time	**143 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.80%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.60 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**29.10 N/ Sq mm** **43.00 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As Furnished by Client.
The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2017-18/Cube

DATE: 07-06-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 06-06-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Raft.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	30-05-17	06-06-17	07	22500	540	24.00	**23.70**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	535	23.78	
B	004	"	"	"	"	500	22.22	**23.48**
	005	"	"	"	"	540	24.00	
	006	"	"	"	"	545	24.22	
C	007	"	"	"	"	540	24.00	**23.70**
	008	"	"	"	"	525	23.33	
	009	"	"	"	"	535	23.78	

*As Furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2017-18/Cube

DATE: 28-06-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 27-06-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Raft.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	30-05-17	27-06-17	28	22500	735	32.67	**32.96**
	002	"	"	"	"	750	33.33	
	003	"	"	"	"	740	32.89	
B	004	"	"	"	"	715	31.78	**32.30**
	005	"	"	"	"	725	32.22	
	006	"	"	"	"	740	32.89	

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The Results relate only to the items tested.

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BUB/CTE/2017-18/Cube

DATE: 28-06-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 27-06-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Raft.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	30-05-17	27-06-17	28	22500	500	22.22	**23.48**
	002	"	"	"	"	540	24.00	
	003	"	"	"	"	545	24.22	

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BUB/CTE/2017-18/Cube

DATE: 14-08-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 12-08-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Raft.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	15-07-17	12-08-17	28	22500	740	32.89	32.74
	002	"	"	"	"	750	33.33	
	003	"	"	"	"	720	32.00	

*As Furnished by Client.
The Results relate only to the items tested.

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BUB/CTE/2017-18/Cube

DATE: 31-08-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 30-08-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Raft.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	02-08-17	30-08-17	28	22500	715	31.78	**32.22**
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	735	32.67	

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BUB/CTE/2017-18/Cube **DATE: 12-06-2017**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 10-06-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Wall.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	03-06-17	10-06-17	07	22500	520	23.11	**23.41**
	002	"	"	"	"	540	24.00	
	003	"	"	"	"	520	23.11	
B	004	"	"	"	"	530	23.56	**23.63**
	005	"	"	"	"	540	24.00	
	006	"	"	"	"	525	23.33	
C	007	"	"	"	"	535	23.78	**23.48**
	008	"	"	"	"	500	22.22	
	009	"	"	"	"	550	24.44	

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BUB/CTE/2017-18/Cube

DATE: 01-07-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 01-07-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Wall.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	03-06-17	01-07-18	28	22500	720	32.00	**31.70**
	002	"	"	"	"	700	31.11	
	003	"	"	"	"	720	32.00	
B	004	"	"	"	"	750	33.33	**32.59**
	005	"	"	"	"	740	32.89	
	006	"	"	"	"	710	31.56	
C	007	"	"	"	"	735	32.67	**32.52**
	008	"	"	"	"	720	32.00	
	009	"	"	"	"	740	32.89	

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The Results relate only to the items tested.

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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2017-18/Cube

DATE: 14-08-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 14-08-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Raft.

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	17-07-17	14-08-17	28	22500	720	32.00	**32.44**
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	740	32.89	

*As Furnished by Client.
The Results relate only to the items tested.

14/8/2017

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JNANA BHARATHI
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BUB/CTE/2017-18/Cube

DATE: 05-09-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 04-09-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Slab

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	07-08-17	04-09-17	28	22500	735	32.67	**32.44**
	002	"	"	"	"	740	32.89	
	003	"	"	"	"	715	31.78	

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BUB/CTE/2017-18/Cube

DATE: 18-07-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 17-07-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M-30

Location* : Approach

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	19-06-17	17-07-17	28	22500	710	31.56	**32.07**
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	725	32.22	

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The Results relate only to the items tested.

18/7/2017

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BUB/CTE/2017-18/Cube

DATE: 24-07-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 07days Compressive Strength.
{Project*: Construction of RCC Culvert & U Shape Drain for Secondary SWD in Mallasandra Ward No.13, **Indent No.22596**}

Ref. : Letter No. AEE/SWD/DD/PR/13/2017-18, dated 22-07-2017

Sample supplied to lab by : Assistant Executive Engineer,
Storm Water Drain, Darasarahalli Division,
BBMP, Bangalore.

Name of the Contractor/Agency*: M/s. KVK Constructions.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M-25
Location* : Raft

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
A	001	15-07-17	22-07-17	07	22500	465	20.67	**21.04**
	002	"	"	"	"	485	21.56	
	003	"	"	"	"	470	20.89	
B	004	"	"	"	"	490	21.78	**21.78**
	005	"	"	"	"	500	22.22	
	006	"	"	"	"	480	21.33	
C	007	"	"	"	"	465	20.67	**21.04**
	008	"	"	"	"	475	21.11	
	009	"	"	"	"	480	21.33	
D	010	"	"	"	"	490	21.78	**20.81**
	011	"	"	"	"	450	20.00	
	012	"	"	"	"	465	20.67	
E	013	"	"	"	"	475	21.11	**21.56**
	014	"	"	"	"	485	21.56	
	015	"	"	"	"	495	22.00	

*As Furnished by Client.
The Results relate only to the items tested.

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